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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	14

Complete if Known	
Application Number	10/759,985
Filing Date	January 16, 2004
First Named Inventor	Schinazi *et al.*
Group Art Unit	1623
Examiner	Crane, Lawrence E.
Attorney Docket Number	18085.105326 EMU 133 CON 5

4742181 1.DOC

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. [1]	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clmns, Lns, Where Relevant Passages/Relevant Figs Appear
LEC	AA	3,116,282	A	Hunter	12-31-1963	
	AB	3,553,192	A	Gauri	01-05-1971	
	AC	3,817,982	A	Verheyden et al.	06-18-1974	
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Examiner Signature	L. E. Crane	Date Considered	01/02/2008

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Sheet	2	of	14

Complete if Known	
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	BA	5,276,151	A	Liotta et al.	01-04-1994	
	BB	5,329,008	A	Partridge et al.	07-12-1994	
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	BT	6,348,587	B1	Schinazi et al.	02-19-2002	
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	BX	DE	1 620 047		Merck	03-17-1970		
	BY	EP	0 206 497	B1	Wellcome Foundation LTD	07-20-1994		
	BZ	EP	0 217 580	A2	Wellcome Foundation LTD	04-08-1987		
	BAA	EP	0 285 884	A2	Bristol-Myers Company	10-12-1988		
	BAB	EP	0 337 713	B1	BioChem Pharma	10-18-1995		
	BAC	EP	0 352 248	A1	Medivir Aktieboiag	01-24-1990		

Examiner Signature	L. E. Crane	Date Considered	01/02/2008

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	CA	EP	0 375 329	A2	Wellcome Foundation LTD	06-27-1990		
	CB	EP	0 382 526	A2	IAF BioChem Int'l	08-16-1990		
	~~CC~~	~~EP~~	~~0 409 227~~	~~A2~~	~~Akad Wiss DDR~~	01-23-1991		
	CD	EP	0 433 898	A2	Abbott Laboratories	06-26-1991		
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	~~CAG~~	~~WO~~	~~94/14456~~	~~A1~~	~~Biochem Pharma~~	07-07-1994		

Examiner Signature	L. E. Crane	Date Considered	01/02/2008

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Application Number	10/759,985
Filing Date	January 16, 2004
First Named Inventor	Schinazi *et al.*
Group Art Unit	1623
Examiner Name	Crane, Lawrence E.
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	DA	WO	94/14802	A1	Biochem Pharma	07-07-1994		
	DB	WO	94/14831	A1	University of Alberta	07-07-1994		
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**	~~DD~~	~~WO~~	~~94/27616~~	~~A1~~	~~Yale University~~	12-08-1994		
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	DJ	WO	96/22778	A1	Emory University	08-01-1996		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. [1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [6]
	DK	Database WPI, Week 8748, Derwent Publications Ltd., London, GB; AN 87-338135 for JP 62-242624 A to Asahi Glass 10-23-1987; [98-338135], Abstract.	
**	~~DL~~	~~EPO Search Report for SN. 96 902772, July 26, 1999.~~	
	DM	ABOBO *et al.*, "Pharmacokinetics of 2', 3'-Dideoxy-5-fluoro-3'-thiacytidine in Rats," *J. Pharmaceutical Sciences*, 83(1), 96-99 (January 1994).	
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	DQ	AJMERA, S., *et al.*, "Synthesis and Biological Activity of 5-Fluoro-2',3'-Dideoxy-3'-fluorouridine and its 5'-phosphate," *J. Med. Chem.*, 27(1): 11-14 (1984).	
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	EA	BALZARINI *et al.*, "5-Chloro-substituted Derivatives of 2', 3'-Didehydro-2', 3'-dideoxyuridine, 3-Fluoro-2', 3'-dideoxyuridine and 3'-Azido-2', 3'-dideoxyuridine as Anti-HIV Agents," *Biochem. Pharmacology*, 38(6), 869-874 (1989).	
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	EE	BELLEAU, B., *et al.*, Chem. Abst. 118(17):169533s (1993).	
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	EG	BIRON *et al.*, "Anti-HIV Activity of the Combination of Didanosine and Hydroxyurea in HIV-1 Infected Individuals," *J. AIDS and Human Retrovirology*, 10(1):36-40 (August 1995).	
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	EI	BOUFFARD, D.Y., *et al.*, "Kinetic Studies on 2'2'-Difluorodeoxycytidine(Gemcitabine) with Purified Human Deoxycytidine Kinase and Cytidine Deaminase," *Biochem. Pharmacol.*, 45(9):1857-1861 (1993).	
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	EK	CHANG, C.-N., *et al.*, "Biochemical Pharmacology of (+) and (-)-2',3'-Dideoxy-3'-Thiacytidine as Anti-Hepatitis B Virus Agents", *J. Biol. Chem.*, 267(3):22414-22420 (1992).	
	EL	CHANG, Chien-Neng, *et al.*, "Deoxycytidine Deaminase-resistant Steroisomer Is the Active Form of (+/-)-2',3'-Dideoxy-3'-thiacytidine in the Inhibition of Hepatitis B Virus Replication," *J. Biological Chemistry*, 267(20):13938-13942 (1992).	
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	EN	CHEN, Chin-Ho, *et al.*, "Delayed Cytotoxicity and Selective Loss of Mitochondrial DNA in Cells Treated with the Anti-Human Immunodeficiency Virus Compound 2',3'-Dideoxycytidine," *J. Biological Chemistry*, 264(20):11934-11937 (1989).	

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	FA	CHOI *et al.*, "In Situ Complexation Directs the Stereochemistry of N-Glycosylation in the Synthesis of Oxathiolanyl and Dioxalanyl Nucleoside Analogues," *J. Am. Chem. Soc.*, 113:9377-9379 (1991).	
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ERR.	FM	CRETTON, E., *et al.*, "Pharmokinetics of 3'-Azido-3'-Dexoythymidine and its Catabolites and Interactions with Probenecid in Rhesus Monkeys," *Antimicrobial Agents and Chemotherapy*, 35(5):801-807 (1991).	
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Examiner Signature	L. E. Crane	Date Considered	01/02/2008

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Complete if Known	
Application Number	10/759,985
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First Named Inventor	Schinazi *et al.*
Group Art Unit	1623
Examiner Name	Crane, Lawrence E.
Attorney Docket Number	18085.105326 EMU 133 CON 5

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	GA	DOONG, Shin-Lian, *et al.*, "Inhibition of the Replication of Hepatitis B Virus in vitro by 2',3'-Dideoxy-3'-Thiacytidine and Related Analogues," *Proc. Natl. Acad. Sci. USA*, 88:8495-8499 (October 1991).	
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	IA	KIM *et al.*, "Asymmetric Synthesis of 1,3-Dioxolane-Pyrimidine Nucleosides and heir Anti-HIV Activity," *J. Med. Chem.*, 35(11):1987-1995 (1992).	
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**	~~IJ~~	~~LIN *et al.*, "Antiviral Activity of 2'3' Dideoxy-.beta.-L-5-fluorocytidine(.beta.~~-L-FddC) and 2',3'-Dideoxy-.beta.-L-cytidine (.beta.-L-ddC) Against Hepatitis B Virus and Human Immunodeficiency Virus Type 1 in Vitro," *Biochemical Pharmacology*, 47(2):171-174 (1994).	
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	JA	MANSOUR *et al.*, "Anti-Human Immunodeficiency Virus and Anti-Hepatitis-B Virus Activities and Toxicities of the Enantiomers of 2'-Deoxy-3'-oxa-4'-thiocytidine and Their 5-Fluoro Analogues in Vitro," *J. Med. Chem.*, 38(1):1-4 (January 6,1995).	
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	JO	PAFF *et al.*, "Intracellular Metabolism of (-)-and (+)-cis-5-Fluoro-1-[2-(Hydroxymethyl)-1,3-Oxathiolan-5-yl] Cytosine in HepG2 Derivative 2.2.15 (Subclone P5A) Cells," *Antimicrobial Agents and Chemotherapy*, 38(6) 1230-1238 (1994).	

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	KA	PAI *et al.*, "Inhibition of Hepatitis B Virus by a Novel L-Nucleoside, 2'-Fluoro-5-Methyl-.beta.-L-Arabinofuranosyl Uracil," *Antimicrob. Agents and Chemother.*, 40(2):380-386 (February 1996).	
	KB	PAINTER *et al.*, *Chem. Abst.* 117(23):226298z (December 7, 1992).	
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	KD	PARKER *et al.*, "Mechanism of Inhibition of Human Immunodeficiency Virus Type 1 Reverse Transcriptase and Human DNA Polymerase .alpha., .beta.0 and .gamma. by the 5'-Triphosphates of Carbovir. 3'-Azdo-3'-deoxythymidine. 2',3'-Dideoxyguanosine, and 3'-Deoxythymidine," *J. Biological Chem.*, 208(3), 1754-1762 (January 25, 1991).	
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	KF	PIRKLE and POCHANSKY, "Chiral Stationary Phases for the Direct LC Separation of Enantiomers," Advances in Chromatography, Giddings, J.C., Grushka, E., Brown, P.R., eds.: Marcel Dekker: New York, 1987; vol. 27, Chap. 3, pp. 73-127.	
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Examiner Signature	L. E. Crane	Date Considered	01/02/2008

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Submitted for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/759,985
				Filing Date	January 16, 2004
				First Named Inventor	Schinazi *et al.*
				Group Art Unit	1623
				Examiner Name	Crane, Lawrence E.
Sheet	12	of	14	Attorney Docket Number	18085.105326 EMU 133 CON 5

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	LA	SCHINAZI, R.F., *et al.*, "Activities of the Four Optical Isomers of 2',3'-Dideoxy-3'-Thiacytidine (BCH-189) against Human Immunodeficiency Virus Type 1 in Human Lymphocytes," *Antimicrobial Agents and Chemotherapy*, 36(3):672-676 (March 1992).	
	LB	SCHINAZI, R.F., *et al.*, "Insights into HIV Chemotherapy," *AIDS Research and Human Retroviruses* 8(6):963-990 (1992).	
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	LD	SCHINAZI, R.F., *et al.*, "Selective Inhibition of Human Immunodeficiency Viruses by Racemates and Enantiomers of cis-5-Fluoro-1-[2-(Hydroxymethyl)-1,3-Oxathiolan-5-yl]Cytosine," *Antimicrobial Agents and Chemotherapy*, 36(11):2423-2431 (November 1992).	
**	LE	~~SCHINAZI, R.F., *et al.*, "Substrate Specificity of Escherichia Coli~~ Thymidine Phosphorylase for Pyrimidine Nucleoside with an Anti-Human Immunodefiency Virus Activity," *Biochemical Pharmacology*, 44(2):199-204 (1992).	
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~~**~~	~~MA~~	~~STORER, R., *et al.*, "The Resolution and Absolute Stereochemistry of the~~ Enantiomeris of cis-1-[2-(Hydromethyl)]-1,3-Oxathiolan-5-yl)cytosine (BCH189): Equipotent Anti-HIV Agents," *Nucleosides & Nucleotides*, 12(2):225-236 (1993).	
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	ML	WILSON, L.J., *et al.*, "A General Method for Controlling Glycosylation Stereochemistry in the Synthesis of 2'-Deoxyribose Nucleosides," *Tetrahedron Lett.*, 31(13):1815-1818 (1990).	
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	MN	WORLD HEALTH ORGANIZATION, "Progress in the Control of Viral Hepatitis: Memorandum from a WHO Meeting," *Bulletin of the World Health Organization*, 66(4):443-455 (1988).	

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	NA	YOKOTA *et al.*, "Comparative Activities of Several Nucleoside Analogs Against Duck Hepatitis B Virus In Vitro," *Antimicrobial Agents and Chemotherapy*, 34(7):1326-1330 (July 1990).	
	NB	ZHU, Zhou, *et al.*, "Cellular Metabolism of 3'-Azido-2',3'-Dideoxyuridine with Formation of 5'-O-Diphophoshexase Derivatives by Previously Unrecognized Metabolic Pathways of 2'-Deoxyuridine Analogs," *Molecular Pharmacology*, 38::929-938 (1990).	

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